EAST Browser - (123) resolution w... | WO 8202955 A1 | Tag: S | Doc: 111/123 | "Full" 38/38 (Total images 38)

File Edit View Tools Window Help

PUB-NO: WO008202955A1

DOCUMENT-IDENTIFIER: WO 8202955 A1

TITLE: IMPROVED DIFFRACTION GRATING SCANNER CORRECTION OF SCAN CURVATURES

------ KWIC ------

Abstract Text - FPAR (1):

CHG DATE=19990617 STATUS=O>An improved diffraction gr anamorphic imaging techniques are utilized to correct the curv scan, in the plane of the scan, as well as correction for field cu to provide improved resolution and increased length of scan. E scanner system may comprise either refractive or reflective el cylindrical lenses (13, 15, 36, 38) and reflectors (27, 33, 37, 39) or elliptical cross-section and toroidal reflectors (20) and lense In addition, such system will customarily include one or more s elements, but at least one cylindrical or toroidal element must The anamorphic imaging correction apparatus can be utilized v scanners, including polygonal and single-mirror scanners, as w

Details | Text | Image | HTML | KWIC

109	EP 553729 A1	
110	FR 2556484 A1	
111	WO 8202955 A1	
112	EP 772156 A	

Documentation Searched other than Minimum Documentation to the Extent that such Documents are included in the Fields Searched

NTS CONSIDERED TO BE RELEVANT 14

Citation of Document, 16 with indication, where appropriate, of the relevant passages 17 | R

P, A, 55-135813, Published 23 October 1980

P, A, 55-157717, Published 08 December 1980

S, A, 4,294,506, Published 13 October 1981

S, A, 3,870,394, Published 11 March 1975

S, A, 3,750,189, Published 31 July 1973

N, IBM Journal of R and D, Vol. 21, No. 5, 1977, U.S.A.,J.M. Fleischer et al, "Laser -Optical System of the IBM 3800 Printer," see pages 479-482

S, A, 4,274,703, Published 23 June 1981

gories of cited documents: 15
defining the general state of the art
cument but published on or after the international

"P" document published prior to the inter on or after the priority date claimed

EAST Browser - (123) resolution w... | JP 06268900 A | Tag: S | Doc: 118/123 | Format : KWIC

File Edit View Tools Window Help

DERWENT-ACC-NO: 1994-345882

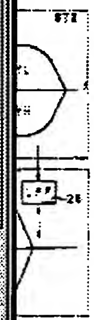
DERWENT-WEEK: 199443

TITLE: High resolution camera having reduced power consumption corresp.to HDTV standard - has anamorphic lens imaging light from object, which is supplied through R, G and B CCDs of which outputs are combined in dichroic prism, and changes pixel ratio by adjusting anamorphic lens
NoAbstract

----- KWIC -----

Derwent Accession Number - NRAN (1):
1994-345882

Title - TIX (1):
High resolution camera having reduced power consumption corresp.to HDTV



Details | Text | Image | HTML | KWIC

116	US 5414458 A	
117	IL 94135 A	
118	JP 06268900 A	
119	JP 06253242 A	

EAST Browser - (123) resolution w... | JP 60114850 A | Tag: S | Doc: 106/123 | Format : KWIC

File Edit View Tools Window Help

PAT-NO: JP360114850A

DOCUMENT-IDENTIFIER: JP 60114850 A

TITLE: ANAMORPHIC VARIABLE POWER COPYING METHOD

------ KWIC ------

Abstract Text - FPAR (1):

PURPOSE: To attain anamorphic variable power without reducing resolution by arranging a prism having no refractive power in one axial direction out of two axes rectangular to the axis of projected light and having refractive power in the other axial direction close to a projection lens in the projected light path and executing copying with different magnification values in the slit longitudinal direction and in the slit width direction respectively.

Document Identifier - DID (1):

JP 60114850 A

Details Text Image HTML KWIC

105	JP 61156038 A	
106	JP 60114850 A	
107	JP 60114845 A	
108	EP 748694 A2	

EAST Browser - (123) resolution w... | JP 60114845 A | Tag: S | Doc: 107/123 | Format : KWIC

File Edit View Tools Window Help

PAT-NO: JP360114845A

DOCUMENT-IDENTIFIER: JP 60114845 A

TITLE: ANAMORPHIC VARIABLE POWER COPYING METHOD

------ KWIC ------

Abstract Text - FPAR (1):

PURPOSE: To execute anamorphic variable magnification without reducing its resolution by setting up the speed ratio of a scanning system to a photosensitive body and the position of a projection lens so that the magnification in a slit longitudinal direction is different from that in a slit width direction.

Document Identifier - DID (1):

JP 60114845 A

Details Text Image HTML KWIC

105	JP 61156038 A	
106	JP 60114850 A	
107	JP 60114845 A	
108	EP 748694 A2	

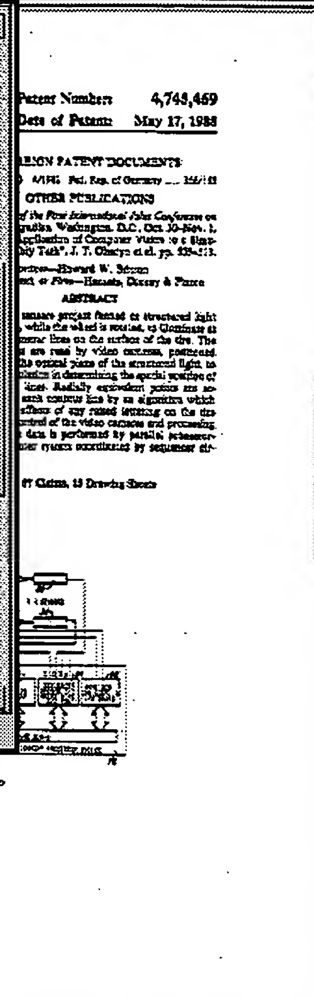
EAST Browser - (123) resolution w... | US 4745469 A | Tag: S | Doc: 84/123 | Format : KWIC

File Edit View Tools Window Help

glass plate 62. The laser diode assembly produces an optically fanned light plane using optics of the type described in U.S. Pat. No. 4,645,348. Positioned within cabinet 52 adjacent the imaging window is a base leg mirror 64. The mirror is positioned so that light entering through the imaging window enters an anamorphic lens 66. The anamorphic lens has a first focal length along one axis and a different focal length along a second orthogonal axis. The anamorphic lens thus produces expanded resolution in one plane and compressed resolution in another plane. This gives one magnification along the axis orthogonal to the length of the contour line and different magnification along the axis parallel to the length of the contour line. By positioning the anamorphic lens properly, the plane of greater focal length and thus higher magnification is aligned generally perpendicular to the length of the imaged contour line. Positioned behind the anamorphic lens is an imaging lens 68 which projects through an interference filter 70 into the video camera assembly 72. Also housed within cabinet 52 are the interface electronics 74 which couple between the video camera assembly and the digital computer equipment yet to be discussed. The above-described optical arrangement provides a suitable field in both the y and z directions, while maintaining sufficient resolution to compensate for the wide variation in vehicle track, wheel size and tire section.

Details | Text | Image | HTML | KWIC

82	US 4827436 A	
83	US 4820911 A	
84	US 4745469 A	
85	US 4705401 A	



EAST Browser - (123) resolution w... | US 4820911 | Tag: S | Doc: 83/123 | "Full" 1/19 (Total images 19)

File Edit View Tools Window Help

US-PAT-NO: 4820911

DOCUMENT-IDENTIFIER: US 4820911 A

TITLE: Apparatus for scanning and reading bar codes

------ KWIC ------

US Patent No. - PN (1):
4820911

Detailed Description Text - DETX (10):
It will, therefore, be seen that an essentially circular beam e
anamorphic optics thereby avoiding the problems involved in th
oblong beam ahead of the deflector 22. The use of the anamor
avoids diffraction effects which reduce the resolution of the sc

Details | Text | Image | HTML | KWIC

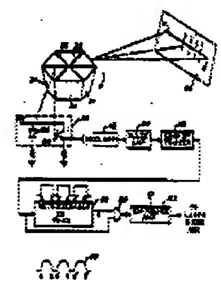
81	US 4897688 A	
82	US 4827436 A	
83	US 4820911 A	
84	US 4745469 A	

United States Patent [19] [11] Patent Number: 4,820,911
[45] Date of Patent: Apr. 11, 1989

[54] APPARATUS FOR SCANNING AND READING BAR CODES

[57] ABSTRACT

47 Claims, 11 Drawing Sheets



EAST Browser - L19: (123) resolution w... | US 5528704 | Tag: S | Doc: 61/123 | "Full" 4/16 (Total images 16)

File Edit View Tools Window Help

US-PAT-NO: 5528704

DOCUMENT-IDENTIFIER: US 5528704 A

TITLE: Image resolution conversion using a plurality c
registrations

----- KWIC -----

Detailed Description Text - DETX (8):

Subsequent to processing input image R.sub.in using prefilte
image R'.sub.in output from prefilter 28 or input image R.sub.in
controller 26 elected not to prefilter input image R.sub.in, is pr
resolution converter 30 based on an input and output tile size c
conversion controller 26. In the preferred embodiment area m
resolution converter 30 to generate appropriate resolution (Mx
image Rout. Although resolution conversion is described herei
mapping, it is understood that other linear combination techni
fraction of each surrounding input pixel to describe an output p
used, such as nearest neighbor methods as disclosed in U.S. P
entitled "Unquantized Resolution Conversion of Bitmap Images

Details Text Image HTML KWIC

59	US 5579064 A	
60	US 5570232 A	
61	US 5528704 A	
62	US 5491346 A	

U.S. Patent Jun. 18, 1996 Sheet 3 of 9 5,528,704

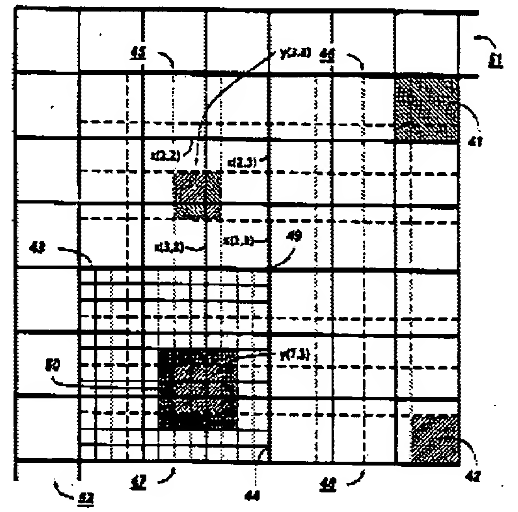


FIG.3

EAST Browser - L22: (2) ("4467361" I... | US 4554585 | Tag: S | Doc: 1/2 | "Full" 1/6 (Total images 6)

File Edit View Tools Window Help

US-PAT-NO: 4554585

DOCUMENT-IDENTIFIER: US 4554585 A

TITLE: Spatial prefilter for variable-resolution sampled imaging systems

------ KWIC ------

US Patent No. - PN (1):
4554585

Details | Text | Image | HTML | KWIC

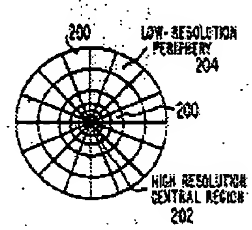
2	US 4467361 A

United States Patent [19]
Carlson

[11] Patent Number: 4,554,585
[45] Date of Patent: Nov. 19, 1985

U.S. PATENT DOCUMENTS

ABSTRACT



EAST Browser - L19: (123) resolution w... | US 5303373 | Tag: S | Doc: 71/123 | "Full" 1/12 (Total images 12)

File Edit View Tools Window Help

US-PAT-NO: 5303373

DOCUMENT-IDENTIFIER: US 5303373 A

TITLE: Anamorphic fused fiber optic bundle

------ KWIC ------

Brief Summary Text - BSTX (17):

The anamorphic optical fibers of this invention can be used t
conventional imaging devices in the same fashion as prior art c
been utilized, with the advantages, of course, attendant to this
such as maximization of resolution, achievement of proper mag
effective use of active areas, etc.

Details | Text | Image | HTML | KWIC

69	US 5359423 A	
70	US 5309241 A	
71	US 5303373 A	
72	US 5274489 A	

United States Patent [19]

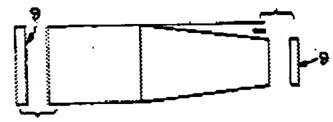
Harootian, Jr.

[11] Patent Number: 5,303,373

[45] Date of Patent: Apr. 12, 1994

[54] ANAMORPHIC FUSED FIBER OPTIC BUNDLE

ABSTRACT



EAST Browser - L19: (123) resolution w... | US 5491346 A | Tag: S | Doc: 62/123 | Format : KWIC

File Edit View Tools Window Help

US-PAT-NO: 5491346

DOCUMENT-IDENTIFIER: US 5491346 A

TITLE: Anamorphic lens system for a hand-held symbology reader

------ KWIC ------

Abstract Text - ABTX (1):

A portable symbology reader utilizing an anamorphic lens system. The anamorphic lens system allows a low cost, high volume CCD sensor to be used in a hand-held, point and shoot, portable imaging system. The anamorphic lens system provides vertical sensor resolution equal to the horizontal while providing a maximum field of view.

Brief Summary Text - BSTX (20):

More specifically described, the present invention provides a symbology reader for detecting a coded symbol on an object, the coded symbol requiring at least a first predetermined object resolution along a vertical plane. The reader includes a two-dimensional array CCD sensor, the CCD sensor defining a

Details Text Image HTML KWIC

60	US 5570232 A
61	US 5528704 A
62	US 5491346 A
63	US 5440111 A

EAST Browser - L19: (123) resolution w... | US 5579064 | Tag: S | Doc: 59/123 | "Full" 1/10 (Total images 10)

File Edit View Tools Window Help

US-PAT-NO: 5579064

DOCUMENT-IDENTIFIER: US 5579064 A

TITLE: Compact anamorphic motion picture system

------- KWIC -------

Claims Text - CLTX (3):

said step of processing includes using an anamorphic lens to vertically compressed anamorphic release print film frame ima film images on release print film, wherein said anamorphic rele frame images each have a larger aspect ratio than said anamo frame images and with said release print film frame images ea substantially all areas of said camera images, so the percent o expansion required during projection to project a geometrically of the scene, is reduced, and wherein said release print film ha resolution than said originating camera film.

Claims Text - CLTX (11):

Details | Text | Image | HTML | KWIC

57	US 5581413 A
58	US 5579445 A
59	US 5579064 A
60	US 5570232 A

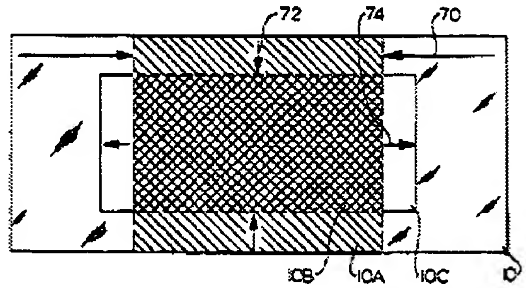
United States Patent [19]
Vetter

[11] Patent Number: 5,579,064
[45] Date of Patent: Nov. 26, 1996

[54] COMPACT ANAMORPHIC MOTION PICTURE SYSTEM

ABSTRACT

6 Claims, 3 Drawing Sheets



EAST Browser - L19: (123) resolution w... | US 5768482 A | Tag: S | Doc: 46/123 | Format : KWIC

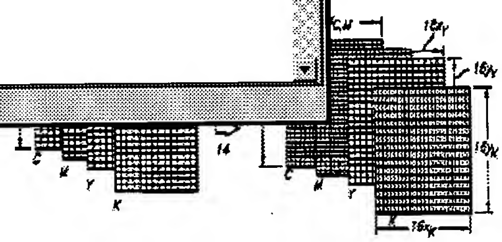
File Edit View Tools Window Help

value is automatically selected when the number of output pixels is more than twice the number of input pixels. The sharpening-factor value, ideally two, is multiplied by the deviation of each image element, e. g. pixel, from the average of its adjacent neighbors; this product is added to the level of the subject image element to form an adjusted level. Weighting or selection of neighbor values along particular axes allows for anisotropic resolution or anamorphic scaling.

Details Text Image HTML KWIC

44	US 5804809 A	
45	US 5786581 A	
46	US 5768482 A	
47	US 5750976 A	

of 9 5,768,482



EAST Browser - L19: (123) resolution w... | US 5936755 | Tag: S | Doc: 40/123 | "Full" 4/16 (Total images 16)

File Edit View Tools Window Help

US-PAT-NO: 5936755

DOCUMENT-IDENTIFIER: US 5936755 A
See image for Certificate of Correction

TITLE: Multi-beam scanning apparatus

------ KWIC ------

Brief Summary Text - BSTX (7):
In the multi-beam scanning apparatus disclosed in Japanese Application No. 58-68016, resolution is switched by providing c change the advance direction of the luminous flux in an optical laser beams are overlaid, and changing the beam spacing in a s on a scanned surface via said components. In the multi-beam s disclosed in Japanese Laid-Open Patent Application No. 57-549 switched by providing an afocal anamorphic zoom lens system forming magnification in a subscan direction, and changing the a subscan direction on a scanned surface via said zoom lens sy

Details | Text | Image | HTML | KWIC

38	US 5975703 A	
39	US 5956355 A	
40	US 5936755 A	
41	US 5818645 A	

U.S. Patent Aug. 10, 1999 Sheet 3 of 8 5,936,755

FIG.8(A)

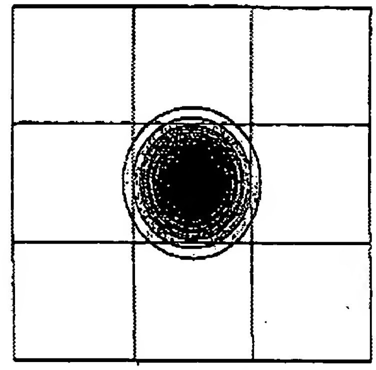
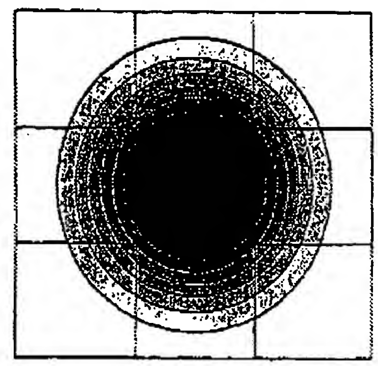


FIG.8(B)



EAST Browser - L19: (123) resolution w... | US 6181482 B1 | Tag: S | Doc: 32/123 | Format : KWIC

File Edit View Tools Window Help

US-PAT-NO: 6181482

DOCUMENT-IDENTIFIER: US 6181482 B1

TITLE: Variable ratio anamorphic lens

----- KWIC -----

Brief Summary Text - BSTX (11):

The use of anamorphic optics to provide a variety of display aspect ratios is particularly beneficial for systems based on emerging digital display technologies because all available resolution of the recording and display media can be utilized. Further, some digital media use ratios other than academy ratio. For example, media with a 1280 by 1024 element resolution has a ratio of 1.25. Without anamorphic optics, a 4:3 ratio image could use only 963 elements vertically, while a 1.85:1 flat widescreen image would use only 692 vertical elements. By using anamorphic optics with an anamorphic ratio of about 1.07:1, a 4:3 ratio image can utilize the full 1024 element vertical resolution.

Details | Text | Image | HTML | KWIC

30	US 6243156 B1	
31	US 6213606 B1	
32	US 6181482 B1	
33	US 6160826 A	

EAST Browser - L19: (123) resolution w... | US 6549215 | Tag: S | Doc: 19/123 | "Full" 8/36 (Total images 36)

File Edit View Tools Window Help

US-PAT-NO: 6549215

DOCUMENT-IDENTIFIER: US 6549215 B2

TITLE: System and method for displaying images usin video

------ KWIC ------

Detailed Description Text - DETX (56):

Referring now to FIG. 19, foveal and anamorphic video are co single image. The low and high resolution images are combine image as described above. The high resolution image in region using foveal video and also at a 1.times. scale in both the hori vertical dimensions, using anamorphic video. To combine this region 452 with the low resolution regions 454, 456 in the horiz dimension, the edges 458, 460 of the high resolution region are The low resolution image information between the edges 458, is displayed at same scale as the high resolution region 452. T information in the low resolution regions 464, 466 that is outsid is displayed using either abrupt or graduated anamorphic video

Details | Text | Image | HTML | KWIC

17	US 6585378 B2	
18	US 6574050 B1	
19	US 6549215 B2	
20	US 6520643 B1